## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (currently amended) A fuel vaporizing device which supplies fuel vapor containing hydrocarbon to a fuel reformer (2) which produces reformate gas having hydrogen as a main component from the fuel vapor by means of a catalytic reaction, comprising:

a fuel vaporizer-(6);

a fuel injector (8, 9) which supplies fuel into the fuel vaporizer (6);

an air injector (8a) which supplies air into the fuel vaporizer (6) to produce an air-fuel mixture in the fuel vaporizer (6), an air supply amount of the air injector (8a) being controlled in relation to a fuel supply amount of the fuel injector (8, 9) so as to obtain an excess air factor of the air-fuel mixture corresponding to a predetermined rich air-fuel ratio; and

a glow plug (13) which partially oxidizes the air-fuel mixture produced inside the fuel vaporizer (6).

- 2. (original) The fuel vaporizing device as defined in Claim 1, wherein the excess air factor corresponding to the predetermined rich air-fuel ratio is within a range of 0.2 to 0.4.
- 3. (currently amended) The fuel vaporizing device as defined in Claim 1, wherein the fuel vaporizing device further comprises a water injector (11)-which supplies moisture to the air-fuel mixture in the fuel vaporizer-(6).

- 4. (currently amended) The fuel vaporizing device as defined in Claim 1, wherein the fuel vaporizing device further comprises a member (21) which suppresses flame propagation accompanying the partial oxidation of the fuel inside the fuel vaporizer (6).
- 5. (currently amended) The fuel vaporizing device as defined in any one of Claim 1-through Claim-4, wherein the fuel vaporizing device further comprises a valve (18) which supplies secondary air to the fuel vapor produced by the fuel vaporizer-(6).
- 6. (currently amended) The fuel vaporizing device as defined in Claim 5, wherein the fuel vaporizing device further comprises a heater (14) which heats the secondary air.
- 7. (currently amended) The fuel vaporizing device as defined in Claim 5, wherein the fuel vaporizing device further comprises a controller (19) programmed to control the valve (18) to stop supplying the secondary air when a start-up period of the reformer (2) is complete.
- 8. (currently amended) The fuel vaporizing device as defined in Claim 7, wherein the fuel vaporizing device further comprises a sensor (20) which detects a temperature of a catalyst of the fuel reformer-(2), and the controller (19) is further programmed to determine that the start-up period of the fuel reformer (2)-is complete when the temperature of the catalyst exceeds a predetermined warm-up completion temperature (82).

- 9. (currently amended) The fuel vaporizing device as defined in Claim 8, wherein the controller (19) is further programmed to control a secondary air flow rate of the valve (18) such that the excess air factor of the fuel vapor that is supplied to the fuel reformer (2) during the start-up period of the fuel reformer (2) decreases as the temperature of the catalyst rises (S4, S5).
- 10. (currently amended) The fuel vaporizing device as defined in Claim 9, wherein the excess air factor of the fuel vapor that is supplied to the fuel reformer (2)-during the start-up period of the fuel reformer (2)-is set to a value within a range of 3 to 6.
- 11. (currently amended) The fuel vaporizing device as defined in Claim 8, wherein the controller (19)-is further programmed to control the fuel injector (8, 9)-such that a fuel injection amount of the fuel injector (8, 9)-increases as the temperature of the catalyst rises (S3).